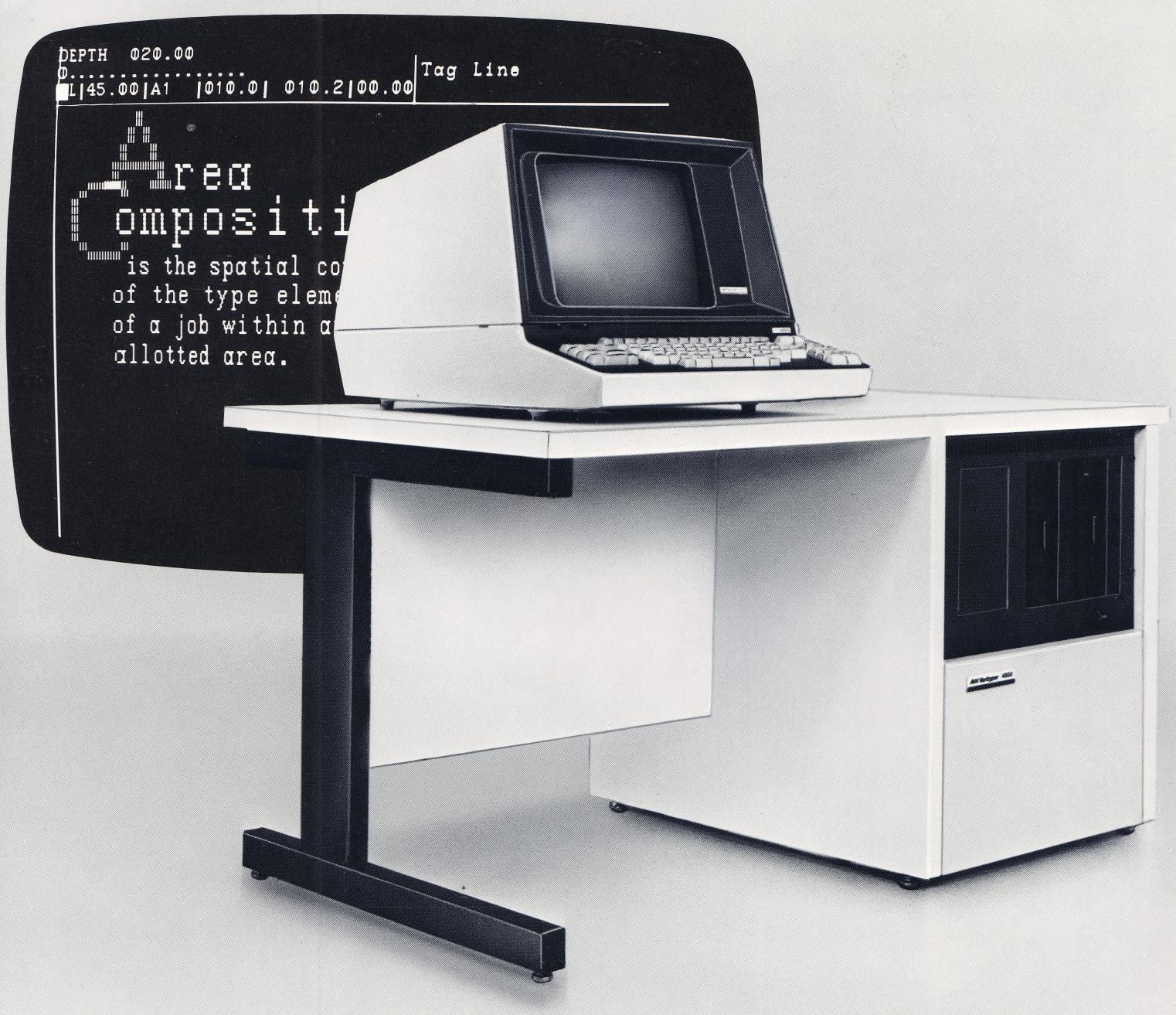

Comp/Set 4800

area composition terminal

Varityper

Comp/Set 4800 area composition terminal

the low-cost state of-the-art system that cuts production time and costs

Operating efficiency at the input stage

Use of simple typing techniques, with few, if any typesetting commands, will result in a reduction of as much as 50% of the total keystrokes required for traditional typesetting input.

Input copy can be typed on a variety of off-line units, as well as directly on the 4800's on-line keyboard. In most installations, however, the on-line keyboard will be employed mainly for copy manipulation and editing, with only occasional direct entry of copy.

Off-line entry is by floppy disk from the Comp/Set 5404 and 5408 video display input terminals, as well as from the on-line keyboard of Comp/Set series 3500 and 4500 phototypesetters. Perforated tape input, entered through an optional tape reader, can be input on Electro/Set keyboards and on other units which produce TTS-coded tape.

Copy can also be originated on the AMtext 425 word processor which produces a compatible floppy disk, and on the low-cost AMtext 225 word processor through on-line connection to the 425.

In addition, copy can be transmitted from remote sources over voice-grade telephone lines directly to the Comp/Set 4800 terminal via an optional RS-232-C telecommunications interface.

Composition functions performed entirely on the screen

The Comp/Set 4800 area composition terminal permits significant reduction in production time and costs by eliminating the most time-consuming, manual mark-up and paste-up operations.

Copy is brought to the screen from the floppy disk in "raw" form, with up to 6,000 characters actively accessible in the scrolling buffer, and with up to 2,800 characters on-screen at one time. The actual number of characters displayed will depend largely on the layout and type size of the job. Copy is displayed

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in a range of 28 type sizes from 5½ to 74 points; the maximum displayable line length is 54 picas.

Blocks (units of copy to be manipulated) can be defined either at the original input stage, or on the terminal's screen as part of the layout and make-up operation. Blocks can be as small as a single character or word, or as large as an entire page. Two or more blocks can be combined to create a larger block which can then be manipulated as a single unit. Similarly, blocks can be divided into smaller units at the operator's discretion.

Function keys, identified with easily understood graphic symbols, provide fast, fingertip control of the size and exact placement of each block, with all changes immediately reflected on the screen. For example, as the operator presses the key for size increase (or decrease), the affected block will immediately step up in size on the screen until the operator releases the key when the desired size has been reached. Other keys control vertical and horizontal placement of individual blocks in the same manner.

As copy is manipulated, the function field at the top of the screen provides a read-out of continuously updated parameters. For example, as the operator steps a block through a range of type sizes, the size changes are instantly displayed in the function field.

Repetitive formats stored for faster operation

Where formats are repeated, as in many retail display ads, when the first unit has been completed on-screen, all others of the same format can be assembled rapidly and automatically. Operations are further speeded and simplified by the system's eight programmable memory areas which permit users to create, store, and rapidly recall repetitively used formats and/or text.

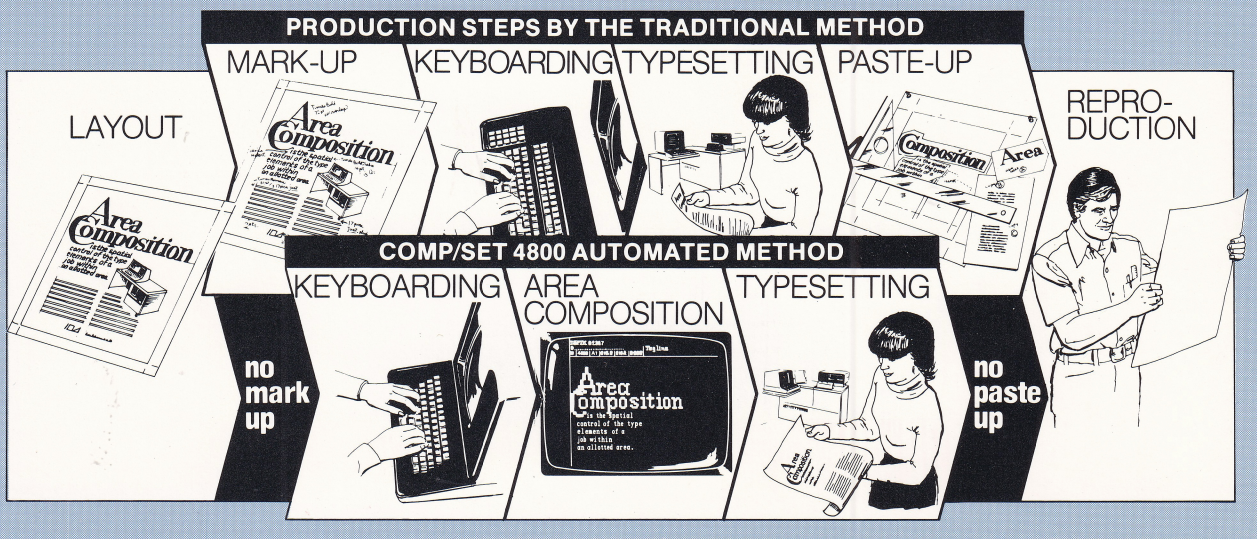
Output of terminal controls typesetter operation

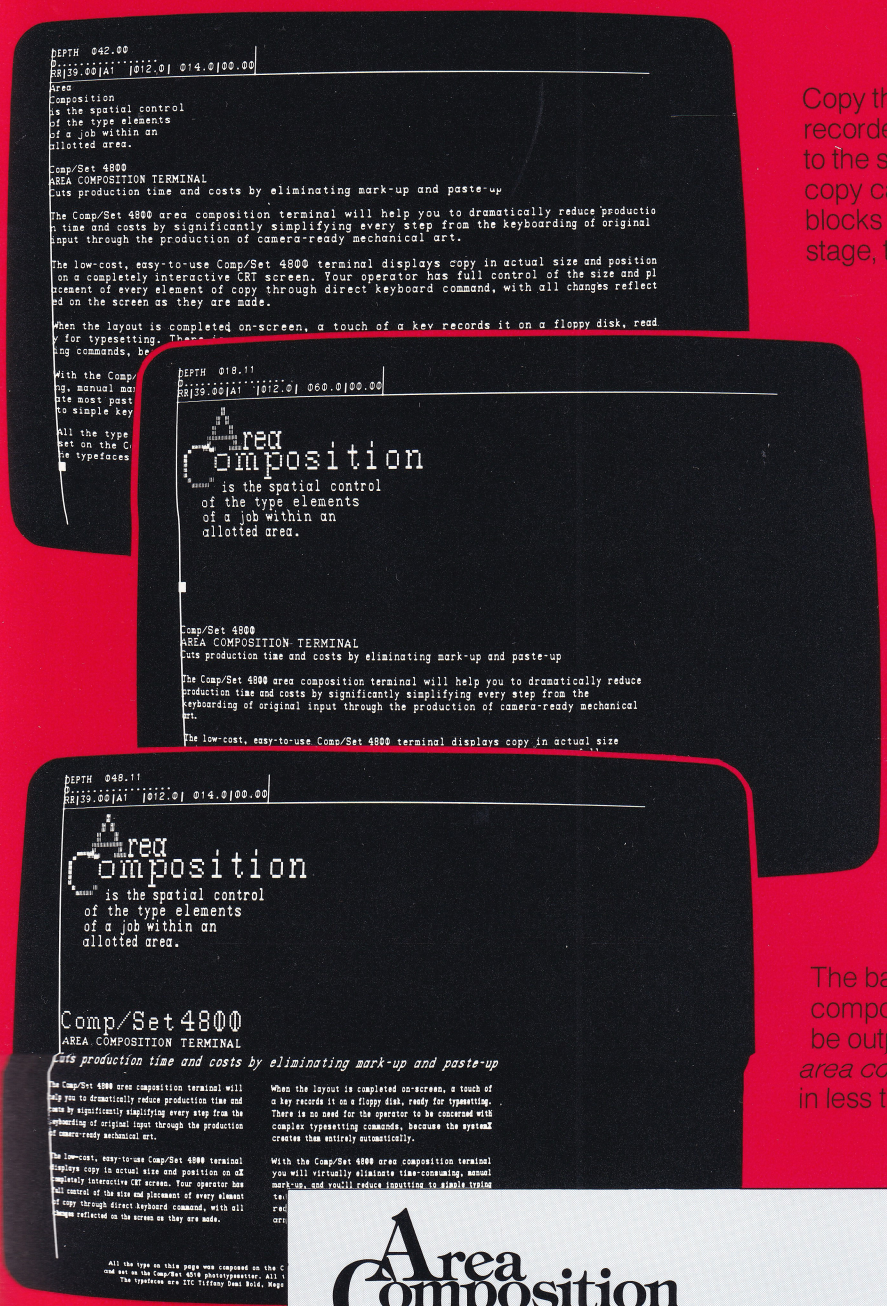
When all copy manipulation has been completed, the job is recorded on a floppy disk. Simultaneously, the system automatically generates and records all of the typesetting commands necessary to convert the on-screen layout to typesetting on the Comp/Set or Comp/Edit phototypesetter.

If changes should later be required, the same disk can be read back into the terminal to bring the job back to the screen in its last form to be updated.

Depending on the characteristics of the job, and the user's production methods, the final typeset output can be in full page form, with all elements in position, ready for reproduction with no paste-up; or it can be output in major blocks which will then be assembled with a minimum of paste-up.

- simplifies inputting
- eliminates mark-up
- eliminates complex command codes
- eliminates paste-up
- *automates the typesetting production cycle*





Copy that was keyboarded off-line and recorded on a floppy disk has been brought to the screen and displayed in 14-point size; copy can easily be proofed at this stage. If blocks were not defined at the inputting stage, they will be defined now.

The first section of the job now has been composed on the screen following the designer's layout. All copy in this section now is seen in actual size and placement.

The balance of the job now has been composed on the screen and is ready to be output onto a floppy disk. The entire *area composition function was completed* in less than 10 minutes.

The above illustrations are actual, unretouched photographs of the Comp/Set 4800 screen. They are approximately 40% of actual size.

Area Composition

is the spatial control of the type elements of a job within an allotted area.

Comp/Set4800

AREA COMPOSITION TERMINAL

Cuts production time and costs by eliminating mark-up and paste-up

The Comp/Set 4800 area composition terminal will help you to dramatically reduce production time and costs by significantly simplifying every step from the keyboarding of original input through the production of camera-ready mechanical art.

The low-cost, easy-to-use Comp/Set 4800 terminal displays copy in actual size and position on a completely interactive CRT screen. Your operator has full control of the size and placement of every element of copy through direct keyboard command, with all changes reflected on the screen as they are made.

When the layout is completed on-screen, a touch of a key records it on a floppy disk, ready for typesetting. There is no need for the operator to be concerned with complex typesetting commands, because the system creates them entirely automatically.

With the Comp/Set 4800 area composition terminal you will virtually eliminate time-consuming, manual mark-up, and you'll reduce inputting to simple typing techniques. You'll eliminate most paste-up, too, by reducing assembly of the most complex typographic arrangements to simple keyboard operation.

All the type on this page was composed on the Comp/Set 4800 area composition terminal and set on the Comp/Set 4510 phototypesetter. All type was set in position with no paste-up. The typefaces are ITC Tiffany Demi Bold, Megaron Light, and Megaron Light Italic.

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This is the final typeset output that was produced on the Comp/Set 4510 phototypesetter. All the commands necessary to control the typesetting operation were created automatically by the Comp/Set 4800 terminal as the job was output onto the disk.

The Comp/Set 4800 area composition terminal will help you to dramatically reduce your production time and costs by significantly simplifying every step from the keyboarding of original input through the production of camera-ready mechanical art.

The low-cost, easy-to-operate Comp/Set 4800 terminal displays copy in actual size and position on a completely interactive CRT screen. Your operator has full control of the size and placement of every element of copy through direct keyboard command, with all changes reflected on-screen as they are made.

When the layout is completed on the screen, a touch of a key records it on a floppy disk, ready for phototypesetting. There is no need for your operator to be concerned with complex typesetting commands, because the system will create them automatically from the final on-screen layout.

With the Comp/Set 4800 area composition terminal, you will virtually eliminate time-consuming, manual mark-up, and you'll reduce inputting to simple typing techniques. You'll eliminate most paste-up, too, by reducing assembly of the most complex typographic arrangements to simple keyboard operation.

In the typical system represented above, original input is typed on the Comp/Set 5404 video display input terminal and recorded on a floppy disk. The disk is transferred to the Comp/Set 4800 terminal where the area composition function takes place, and the completed job is recorded on the same disk which will control the operation of the phototypesetter as it sets the final output.

Comp/Set 4800 area composition terminal

SPECIFICATIONS

CONFIGURATION
Stand-alone system consisting of interactive CRT screen and keyboard, dual floppy disk drives, and controller.

TEXT FUNCTIONS
Insert/delete of characters and blocks.

Move/merge of blocks.

Define copy function permits free-form formatting of individual copy units.

Dual-mode operations: compose mode for automatic input mark-up, layout, and output; *text mode* for proofreading of copy on-screen.

COMPOSITION FUNCTIONS
Quadding, tabbing, and text positioning commands.

Justification of text with or without automatic hyphenation.

Skew and block formatting commands.

Copying commands for repetitive formats.

DISPLAY SCREEN
Viewing area: 9" x 7½".

Display capacity: up to 2,800 characters.

Scrolling capacity: up to 6,000 characters.

Character repertoire: 192 characters including upper and lower case alphanumerics and pi symbols.

Character size range: 28 displayable sizes: 5½ to 74 point.

Displayable sizes: the following sizes can be displayed on-screen: 5½, 6, 7, 8, 8½, 9, 10, 11, 12, 14, 16, 18, 20, 24, 28, 30, 34, 36, 42, 44, 48, 52, 56, 60, 64, 68, 72, 74.

Other sizes: all intermediate Comp/Set and Comp/Edit sizes can be specified and set; they will be displayed at the closest of the above sizes.

Line length: displays up to 54 picas (up to 70 picas can be specified and set).

Function field: displays continuously updated typesetting parameters.

Video modifiers: bold: identifies block associated with parameter data in function field in which cursor is currently active; *underline:* identifies block which has been defined by the operator; *cross hatch:* identifies position within a block at which font change has occurred; *blink:* indicates that an error condition exists within the blinking block.

KEYBOARD
108 keys including 64-key typewriter keypad with secretarial shift/unshift and shift lock, non-locking double shift, and triple shift for special functions; 44 auxiliary keys for control of all functions, function keys labelled with international graphic symbols; operator indicator lights.

TYPESETTING FUNCTIONS
All Comp/Set and Comp/Edit phototypesetter functions can be controlled, including hyphenation and justification, mortise, and programmable white space reduction and expansion.

Font widths: on-line storage for up to 16 font width tables, user programmable by floppy disk from type discs on the phototypesetter.

Type sizes: 138 type sizes can be specified and set.

Line length: up to 70-pica measure can be specified and set.

INPUT/OUTPUT
Input: from off-line sources (below), and from the unit's on-line keyboard.

Floppy disk: input by floppy disk can be originated on Comp/Set 5404 or 5408 video display input terminals, Comp/Set series 3500 or 4500 phototypesetters, or AMtext 425 word processor.

Perforated tape: input by TTS-coded perforated tape can be originated on Electro/Set perforators or on other TTS-coded units; perforated tape reader is optional.

Telecommunications: input can be received from remote sources over voice-grade telephone lines, employing half-duplex, binary synchronous or asynchronous mode; RS-232-C telecommunications interface is optional.

Output: floppy disk, coded for Comp/Set phototypesetter; also can drive Comp/Edit phototypesetter when disk is converted through special Comp/Edit program.

FILE MANAGEMENT
Floppy disk provides storage and file management for raw text, composed text, and typesetter output text.

Raw text: 3 files of up to 12,000 characters each.

Composed text: 10 files of up to 12,000 characters each.

Typeset output: 10 files of up to 12,000 characters each.

DIAGNOSTICS
Automatic resident self-diagnostic routine checks system when machine is turned on; automatic in-depth diagnostic routine enables service technician to rapidly isolate and correct malfunctions.

PHYSICAL SPECIFICATIONS

	keyboard/screen	desk/controller	total unit
Height:	15¼" (38 cm.)	27½" (69.9 cm.)	42¾" (107.9 cm.)
Width:	20" (50 cm.)	50" (127 cm.)	70" (177 cm.)
Depth:	25" (61 cm.)	30" (76.2 cm.)	55" (101.2 cm.)
Weight:	57 lbs. (25.9 kg.)	270 lbs. (122.5 kg.)	327 lbs. (148 kg.)

ELECTRICAL REQUIREMENTS
115V AC, 60Hz, current consumption 8 amps;
or 230V AC, 60Hz, current consumption 4 amps.
UL listed, CSA approved.

AM Varityper
11 Mt. Pleasant Ave. □ East Hanover, N.J. 07936

Canadian Head Office
165 Milner Ave. □ Scarborough, Ontario M1S4G7

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Composed on a Comp/Set phototypesetter, Litho in U.S.A.